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ERRATA IN VOL. VI.

- Page 2, line 4 from bottom, for *of* read *and*.
 “ 3, “ 13 “ top, for *Cretacean* read *Cetacean*.
 “ 33, “ 13 and 20 from bottom, for *Nipongue* read *Mpongue*.
 “ 36, “ 26 from top, for *undeniable* read *undeniably*.
 “ 40, “ 19 “ bottom, for *interstitialis* read *interstitialis*.
 “ 45, “ 5 “ top, for *thorace* read *thorax*.
 “ 46, “ 18 “ bottom, for *simplicibus* read *fulcrantibus*.
 “ 48, in division (*b*) of *Eucnemis*, for *serratae* read *pectinatae*.
 “ 66, “ 10 from top, for *is* read *are*.
 “ 114, “ 2 “ bottom, for *fulvis* read *fulvus*.
 “ 141, “ 9 “ bottom, for *generus* read *genus*.
 “ 149, in note (†) for *fr* read *für*.
 “ 150, the three lines of the diagnosis of *Cephennium corporosum* have lost the initial letters: to the first add *l*, to the second *pl*, to the third *a*.
 “ 171, line 2 from bottom, for *Africa* read *America*.
 “ 174, “ 22 “ top, for *inferior* read *anterior*.
 “ 180, for *Homolosaurus* read *Homalosaurus*.
 “ 181, for *Pituophis* read *Pityophis*.
 “ 229, line 21 from top, for *Anchytursus* read *Anchytarsus*.
 “ “ “ 40 “ top, for *picea* read *brunneus*.
 “ 231, after *Tostegoptera*, for *Edwards* read *Blanchard*.
 “ 241, line 15 from top, for *Enbradys* read *Eubradys*.
 “ 302, line 13 from top, for 1859 read 1849.
 “ 327, “ 31 “ top, for *laniata* read *taniata*.
 “ 329, “ 22 “ top, for *parvus* read *parvulus*, vide p. 414.
 “ “ “ 26 “ top, for *Fern* read *Kern*.
 “ 337, “ 31 “ top, for *Fauna* read *Faunas*.
 “ 368, “ 12 “ top, for *Trainfeld* read *Frainfeld*.
 “ “ “ 29 “ top, for *truncates* read *truncatus*.
 “ 377, top line, for — read *and*.
 “ 376, line 17 from bottom, for *Prisidon* read *Prisodon*.
 “ 403, “ 2 “ bottom, for *Lyceum* read *State Library*.
 “ 439, “ 17 “ bottom, for *Agryppus* read *Agrypnus*.
 “ 454, “ 9 “ bottom, for *Endomochydæ* read *Endomychidæ*.
 “ lxxviii, line 22 from bottom, add *Mr. T. A. Conrad*.
 “ lxxiv, line 17 from top, for *Vorselemque* read *Vorlesungen*.

The following omissions of donations to the Library, August 10th, 1852, occurred at page xxxiii:

Description of a Skeleton of the *Mastodon giganteus*, of North America. By John C. Warren, M. D. 4to. From the Author.

Exploration and Survey of the Valley of the Great Salt Lake of Utah. By Howard Stansbury, Capt. U. S. Topograph. Eng. 8vo. and map. From Col. J. J. Abert.

Experimental Researches in Electricity, 29th series. By Michael Faraday, Esq. From the Author.

On the Physical Character of the Lines of Magnetic Force. By Michael Faraday, Esq. From the Author.

Zoology of the Great Salt Lake of Utah, (extracted from Capt. Stansbury's Report.) From Prof. S. F. Baird.

Geognostische Wanderungen im Gebiete der nordöstlichen Alpen. Von Carl Ehrlich. From the Author.

Ueber die nordöstlichen Alpen. Von Carl Ehrlich. From the Author.

P R O C E E D I N G S
OF THE
A C A D E M Y O F N A T U R A L S C I E N C E S
O F P H I L A D E L P H I A .

January 6th, 1852.

The President, Mr. GEORGE ORD, in the Chair.

Letters were read :

From Dr. Benjamin F. Shumard, dated Oregon City, Nov. 18th, 1851, giving a brief account of his geological observations in Oregon Territory.

From the Secretary of the American Philosophical Society, dated Philadelphia, Dec. 19th, 1851, acknowledging the receipt of various Nos. of Vols. 4 and 5 of the Proceedings, furnished by request to complete the series of the same in the Library of that Society.

From the Secretary of the Trustees of the New York State Library, dated Albany, Dec. 26th, 1851, acknowledging the receipt of late Nos. of the Proceedings, &c.

From T. R. Peale Esq., dated Washington, D. C., Dec. 26th, 1851, suggesting the propriety of taking measures at this time to dispose of the collection of French Political Documents belonging to the Academy, to Congress.

From George Ord, Esq., dated Philadelphia, Jan. 1st, 1852, presenting his acknowledgments for his election as President of the Institution.

Dr. Leidy read a continuation of Mr. Dana's paper on the Crustacea of the late U. S. Exploring Expedition, which was on motion referred to the Committee on the former portions of the paper.

Dr. Leconte read a paper entitled "Notice of fossil Dicotyles from Missouri," and also a "Notice of some fossil Pachyderms from Illinois; both of which being intended for publication in the Proceedings, were referred to Dr. Leidy, Dr. Carson and Mr. Moss.

Dr. Leidy read the following remarks by Dr. J. L. Burtt, U. S. N., on the influence of Sulphuretted Hydrogen arising from the bottom of the Bay of Callao on the fishes in its waters :

"One occurrence always excited much interest, whenever there was an evolution of sulpho-hydric acid gas (a frequent occurrence) from the bottom of the Bay of Callao. The first premonition of what was to produce a remarkable

destruction among fish, was the discoloration of the water of the bay, from a marine green to a dirty milk-white hue, followed by a decided odor of the gas; so much of it being present on many occasions as directly to blacken a clean piece of silver, and to blacken paint work in a few hours.

The fish, during this evolution, rose in vast numbers from the bottom; and after struggling for some time in convulsions upon the surface, died.

I was particularly struck by this fact, that all of them during the time that they were under its influence, acted in precisely the same manner. The first thing noticeable with regard to its effect upon them, was that on coming near the surface, they seemed to have much difficulty in remaining below it at all. They then rose completely to the surface, struggling vainly to dive beneath. This was followed by violent springing and darting in various directions—evidently without control of direction—for they moved sideways, or upon the back, and sometimes tail first, with great velocity. After a little time their motion became circular, and upon the back, the circle of gyration constantly diminishing, and the rapidity of the motion as constantly increasing, until there was a sudden cessation of all motion. The head then floated about the surface, the body being in a perpendicular position. A few convulsive movements shortly followed, and they were dead.

I have watched thousands of them so dying; and in every instance such was the mode of death. Having taken them at the moment of death and immediately after, a rude examination showed in all the same appearances. The intestines and brain were gorged with blood, much darker than natural. The gills were almost black, and the air-bladder ruptured. A premonitory symptom that such destruction was about to occur, was the previous appearance of unaccountable numbers of fishing-birds, especially of the Pelicans. On one occasion, taking the known size of the Island of San Lorenzo as a guide for measurement, we concluded that there was a body of Pelicans 5 miles long, one mile wide, and 300 feet thick, filling the water and air as closely as possibly they could do. How many were there? Can we wonder at the size of guano deposits?"

Dr. Leidy called the attention of the members to a fossil tooth and a fragment of a second, from the collection made by Mr. Culbertson in Nebraska Territory, which, he observed, belonged to a new species of *Rhinoceros*, or probably *Acerotherium*. The former specimen is probably a third premolar, the latter a portion of the fourth. A great peculiarity in the teeth is the confluence of the inner lobes with each other, and their separation to the base from the outer lobes. They possess a remarkably strong basal ridge, and indicate an animal larger than any species of existing *Rhinoceros*: the greatest transverse diameter of the third premolar being $2\frac{1}{2}$ inches; its antero-posterior diameter $1\frac{3}{4}$ inches. For the species the name *Rhinoceros Americanus* is proposed.

Dr. Leidy also called the attention of the members to the fine mounted specimen of Polar Bear now in the Hall, the skin of which had been lately presented by Dr. E. K. Kane, U. S. N.

On motion of Dr. Fisher, the letter of Mr. Peale, read this evening, was referred to the Library Committee, with power to act.

Dr. Fisher announced that the collection of fossil foot-prints of Fishes, belonging to Mr. Dexter Marsh, of Greenfield, Mass., was for sale.

On motion of Mr. Moss, the suggestions contained in the Report of the Librarian for 1851, were referred to the Library Committee.